

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION  
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification <sup>7</sup> : <b>G01V 1/38, B63B 21/66</b></p>	<p><b>A1</b></p>	<p>(11) International Publication Number: <b>WO 00/20895</b> (43) International Publication Date: <b>13 April 2000 (13.04.00)</b></p>
<p>(21) International Application Number: <b>PCT/IB99/01590</b> (22) International Filing Date: <b>28 September 1999 (28.09.99)</b> (30) Priority Data: <b>9821277.2</b>      <b>1 October 1998 (01.10.98)</b>      <b>GB</b> (71) Applicant (for all designated States except CA FR US): <b>GECO AS [NO/NO]; Schlumberger House, Solbraveien 23, N-1372 Asker (NO).</b> (71) Applicant (for CA only): <b>SCHLUMBERGER CANADA LIMITED [CA/CA]; 24th floor, Monenco Place, 801 6th Avenue, SW, Calgary, Alberta T2P 3W2 (CA).</b> (71) Applicant (for FR only): <b>SERVICES PETROLIERS SCHLUMBERGER [FR/FR]; 42, rue Saint Dominique, F-75007 Paris (FR).</b> (72) Inventors; and (75) Inventors/Applicants (for US only): <b>HILLESUND, Oyvind [NO/NO]; Juterudaasen 47A, N-1312 Slependsen (NO). BITTLESTON, Simon, Hastings [GB/GB]; Weathercock Hill House, Weathercock Hill, Cheivington, Bury St Edmunds, Suffolk IP29 5GR (GB).</b></p>		<p>(74) Agent: <b>STOOLE, Brian, David; Geco-Prakla (UK) Limited, Schlumberger House, Buckingham Gate, Gatwick, West Sussex RH6 0NZ (GB).</b> (81) Designated States: <b>AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</b>  <b>Published</b> <i>With international search report.</i></p>
<p>(54) Title: <b>CONTROL SYSTEM FOR POSITIONING OF MARINE SEISMIC STREAMERS</b></p>		
<p>(57) Abstract</p> <p>A method of controlling a streamer positioning device (18) configured to be attached to a marine seismic streamer (12) and towed by a seismic survey vessel (10) and having a wing and a wing motor for changing the orientation of the wing. The method includes the steps of: obtaining an estimated velocity of the streamer positioning device, calculating a desired change in the orientation of the wing using the estimated velocity of the streamer positioning device, and actuating the wing motor to produce the desired change in the orientation of the wing. The invention also involves an apparatus for controlling a streamer positioning device including means for obtaining an estimated velocity of the streamer positioning device, means for calculating a desired change in the orientation of the wing using the estimated velocity of the streamer positioning device, and means for actuating the wing motor to produce the desired change in the orientation of the wing.</p> 		